Action .

100

## SEQUENCE LISTING

- <110> Ward, Gary

  Donahue, Carolyn
- <120> Toxoplasma Gondii Apical Membrane Antigen-1
- <130> V0139/7050(HCL/MXA)
- <150> US 60/247,870
- <151> 2000-11-09
- <160> 3
- <170> PatentIn version 3.0
- <210> 1
- <211> 541
- <212> PRT
- <213> toxoplasmosis gondii
- <400> 1
- Met Gly Leu Val Gly Val Gln Val Leu Leu Val Leu Val Ala Asp Cys 1 5 10 15
- Thr Ile Phe Ala Ser Gly Leu Ser Ser Ser Thr Arg Ser Arg Glu Ser 20 25 30
- Gln Thr Leu Ser Ala Ser Thr Ser Gly Asn Pro Phe Gln Ala Asn Val 35 40 45
- Glu Met Lys Thr Phe Met Glu Arg Phe Asn Leu Thr His His Gln 50 60
- Ser Gly Ile Tyr Val Asp Leu Gly Gln Asp Lys Glu Val Asp Gly Thr 65 70 75 80
- Leu Tyr Arg Glu Pro Ala Gly Leu Cys Pro Ile Trp Gly Lys His Ile 85 90 95
- Glu Leu Gln Gln Pro Asp Arg Leu Pro Tyr Arg Asn Asn Phe Leu Glu 100 105 110
- Asp Val Pro Thr Glu Lys Glu Tyr Lys Gln Ser Gly Asn Pro Leu Pro 115 120 125
- Gly Gly Phe Asn Leu Asn Phe Val Thr Pro Ser Gly Gln Arg Ile Ser

Pro 145	Phe	Pro	Met	Glu	Leu 150	Leu	Glu	Lys	Asn	Ser 155	Asn	Ile	Lys	Ala	Ser 160
Thr	Asp	Leu	Gly	Arg 165	Cys	Ala	Glu	Phe	Ala 170	Phe	Lys	Thr	Val	Ala 175	Met
Asp	Lys ·	Asn	Asn 180	Lys	Ala	Thr	Lys	Tyr 185	Arg	Tyr	Pro	Phe	Val 190	Tyr	Asp
Ser	Lys	Lys 195	Arg	Leu	Cys	His	Ile 200	Leu	Tyr	Val	Ser	Met 205	Gln	Leu	Met
Glu	Gly 210	Lys	Lys	Tyr	Cys	Ser 215	Val	Lys	Gly	Glu	Pro 220	Pro	Asp	Leu	Thr
Trp 225	Tyr	Cys	Phe	Lys	Pro 230	Arg	Lys	Ser	Val	Thr 235	Glu	Asn	His	His	Leu 240
Ile	Tyr	Gly	Ser	Ala 245	Tyr	V.al	Gly	Glu	Asn 250	Pro	Asp	Ala	Phe	Ile 255	Ser
Lys	Cys	Pro	Asn 260	Gln	Ala	Leu	Arg	Gly 265	Tyr	Arg	Phe	Gly	Val 270	Trp	Lys
Lys	Gly	Arg 275	Cys	Leu	Asp	Tyr	Thr 280	Glu	Leu	Thr	Asp	Thr 285	Val	Ile	Glu
Arg	Val 290	Glu	Ser	Lys	Ala	Gln 295	Cys	Trp	Val	Lys	Thr 300	Phe	Glu	Asn	Asp
Gly 305	Val	Ala	Ser	Asp	Gln 310	Pro	His	Thr	Tyr	Pro 315	Leu	Thr	Ser	Gln	Ala 320
Ser	Trp	Asn	Asp	Trp 325	Trp	Pro	Leu	His	Gln 330	Ser	Asp	Gln	Pro	His 335	Ser
Gly	Gly	Val	Gly 340	Arg	Asn	Tyr	Gly	Phe 345	Tyr	Tyr	Val	Asp	Thr 350	Thr	Gly
Glu	Gly	Lys 355	Cys	Ala	Leu	Ser	Asp 360	Gln	Val	Pro	Asp	Cys 365	Leu	Val	Ser
Asp	Ser 370	Ala	Ala	Val	Ser	Tyr 375	Thr	Ala	Ala	Gly	Ser 380	Leu	Ser	Glu	Glu
Thr 385	Pro	Asn	Phe	Ile	Ile 390	Pro	Ser	Asn	Pro	Ser 395	Val	Thr	Pro	Pro	Thr 400
Pro	Glu	Thr	Ala	Leu 405	Gln	Cys	Thr	Ala	Asp 410	Lys	Phe	Pro	Asp	Ser 415	Phe
Gly	Ala	Cys	Asp 420	Va1	Gln	Ala	Cys	Lys 425	Arg	Gln	Lys	Thr	Ser 430	Cys	Val
Gly	Gly	Gln 435	Ile	Gln	Ser	Thr	Ser 440	Val	Asp	Cys	Thr	Ala 445	Asp	Glu	Gln
Asn	Glu 450	Cys	Gly	Ser	Asn	Thr 455	Ala	Leu	Ile	Ala	Gly 460	Leu	Ala	Val	Gly
Gly 465	Val	Leu	Leu	Leu	Ala 470	Leu	Leu	Gly	Gly	Gly 475	Cys	Tyr	Phe	Ala	Lys 480
Arg	Leu	Asp	Arg	Asn 485	Lys	Gly	Val	Gln	Ala 490	Ala	His	His	Glu	His 495	Glu

HOCHEY CYTEROLL

Acht.

CALL CONTRACTOR CONTRA

心理

ä

Linkton

14

,

STATE STATES

Ŧ

Ä

ij

Phe Gln Ser Asp Arg Gly Ala Arg Lys Lys Arg Pro Ser Asp Leu Met 500 505 510

Gln Glu Ala Glu Pro Ser Phe Trp Asp Glu Ala Glu Glu Asn Ile Glu 515 520 525

Gln Asp Gly Glu Thr His Val Met Val Glu Gly Asp Tyr 530 540

<210> 2

<211> 2507

<212> DNA

<213> toxoplasmosis gondii

<400> 60 ggtgagggag cgcggccata cagtcatcaa tcgaacactg agacgaagca catggggctc gtgggcgtac aagttttgct ggttcttgtg gcggattgca ccatattcgc atcgggactc 120 180 agctcaagca caaggtctcg cgagtcgcag acgctgagtg ctagcacgtc ggggaatccc tttcaggcaa atgtagagat gaaaaccttc atggaaagat tcaacctaac tcatcatcat 240 cagtctggta tttacgtcga ccttggacaa gacaaggaag ttgatggcac attataccgg 300 gagcctgcgg ggttgtgtcc catttgggga aagcacatcg aactccagca gccggaccgg 360 420 cttccgtacc gtaacaactt cttggaagat gttccgactg aaaaagaata caaacagtca gggaatcctt tgcccggagg cttcaacttg aatttcgtga cgcctagcgg gcagcgaatt 480 540 tcaccatttc cgatggaact tcttgaaaaa aatagcaaca tcaaggcgag tacggatctt gggaggtgcg ccgagtttgc ctttaagacg gtcgctatgg ataaaaacaa taaggcgacg 600 aagtaccgtt acccatttgt ttatgactcc aagaagcgac tgtgccacat cctctacgta 660 720 tegatgeage tgatggaggg taaaaagtac tgttcagtca agggcgaace tecagatete acatggtatt gcttcaagcc ccgaaagagt gttacggaga atcatcatct catctacgga 780 840 tcggcctatg ttggagagaa cccagatgcg ttcatcagta aatgcccaaa tcaagctctt 900 cgcgggtaca ggttcggtgt ttggaagaaa ggccgttgcc tcgactacac tgaattgacc 960 gacactgtga tagaacgtgt tgagtcaaag gcacagtgct gggtgaaaac ctttgaaaac gacggggtcg cgagtgacca accccatacg tatccactga cgtcgcaagc atcatggaac 1020 1080 gattggtggc ctctccacca gagtgaccaa cctcactcag gtggcgttgg gcgtaattac 1140 ggtttctact acgtggacac gactggagag ggcaagtgtg cactctctga ccaggtaccc 1200 gactgcctgg tgtcggattc tgccgccgtg tcgtatacag cagcggggag tttgtctgaa 1260 gagacgccga atttcataat tccgtcaaat ccctctgtta ctccgccaac gcccgagacg 1320 gcacttcagt gcacggccga caagttcccc gactctttcg gtgcctgcga cgttcaagcc tgtaaaagac agaagacgtc ctgcgttggc ggacagattc aaagtactag cgtcgactgc 1380 accgcggacg aacaaaatga atgtggctct aacactgcgt tgatcgctgg actcgccgta 1440 A SEASON CONCERN.

					•		
,	ggaggggttc	tgctgttggc	tcttctagga	ggaggctgct	acttcgcgaa	gaggttggac	1500
•	agaaacaaag	gcgtccaggc	ggctcatcat	gaacatgagt	ttcagtcaga	_cagaggtgct	1560
•	cgaaaaaaga	ggccaagcga	tctcatgcaa	gaggctgaac	cgtcgttttg	ggatgaggca	1620
•	gaggagaaca	ttgaacaaga	tggggaaaca	catgttatgg	tcgaggggga	ttactagagt	1680
•	cagaagaaac	tgggtacagt	tttcccctca	gaatgcagtc	gttcgagaac	aagttttctc	1740
1	tttttgttgc	cttgatcaac	aggacagtat	aagttgtcgg	cacatcatgc	gcacacatga	1800
ě	acacatgtat	actttgtctg	cgtgccgagc	tgctgtgtgt	caccgaccgt	ctgtggtctg	1860
(	cctgagccaa	taaattattg	caacggctgt	ttttttatgg	cagtgtcgtg	tgttgggatt	1920
•	catgtgctta	caaaggatgt	cccgatgccc	agcgtgcgca	caaacgtgca	ttttttata	1980
1	ttagcctagt	aaattgattg	agtgcctgtg	cacttcgtcg	attccaattc	gacccattca	2040
ç	ggaaggggaa	cgcggtcagt	aaaatgccct	gttgagtcgt	ttttctgata	ctgattttca	2100
1	tgcggaaagc	gtagtcagtg	ctaaatgtac	catttggaat	ttgtcgtagg	tcgacacaaa	2160
(	cagttgtgat	tacggttctc	gacgctagtg	cgccaaatga	agctcgcgaa	acaaggtgtg	2220
ě	aaggcttgat	atctgacaac	gcagaacaac	gcagccggtt	agtaggttgc	gcctgcccca	2280
			ccgttttcat				2340
			tctatggaag				2400
			cgattccgta				2460
			taaacgtacg		•		2507

<210> 3

<211> 21

<212> PRT

<213> Toxoplasma gondii

<400> 3

Glu Phe Gln Ser Asp Arg Gly Ala Arg Lys Lys Arg. Pro Ser Asp Leu 1 10 15

Met Gln Glu Ala Cys 20